

0400  
03-13-01 0500

OIEP

## RAW SEQUENCE LISTING

DATE: 02/08/2001

PATENT APPLICATION: US/09/771,209

TIME: 12:32:52

Input Set : A:\38586b.txt

Output Set : N:\CRF3\02082001\I771209.raw

P5 #3.

ENTERED

3 <110> APPLICANT: Buck, Linda  
 4 Axel, Richard  
 6 <120> TITLE OF INVENTION: ODORANT RECEPTORS AND USES THEREOF  
 8 <130> FILE REFERENCE: 0575/38586-B/JPW/ADM  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/771,209  
 C--> 10 <141> CURRENT FILING DATE: 2001-01-26  
 10 <150> PRIOR APPLICATION NUMBER: US 08/129,079  
 11 <151> PRIOR FILING DATE: 1993-10-05  
 13 <160> NUMBER OF SEQ ID NOS: 80  
 15 <170> SOFTWARE: PatentIn version 3.0  
 17 <210> SEQ ID NO: 1  
 18 <211> LENGTH: 954  
 19 <212> TYPE: DNA  
 20 <213> ORGANISM: Rattus sp. F12  
 22 <400> SEQUENCE: 1  
 23 atggaatcag ggaacagcac aagaagattt tcaagttttt ttcttcttgg atttacagaa 60  
 25 aaccacacaac ttcaacttcct cattttttgca ctatttcctgt ccatgtacct ggtaacagtg 120  
 27 cttgggaacc tgcttatcat tatggccatc atcacacagt ctcatattgca tacacccatg 180  
 29 tactttttcc ttgctaacct atcctttgtg gacatctgtt tcacctccac caccatccca 240  
 31 aagatgttgg taaatatata caccagagc aagagcatca cctatgaaga ctgtattagc 300  
 33 cagatgtgtg tcttcttggg ttctgcagaa ttgggcaact ttctcctggc tgtgatggcc 360  
 35 tatgaccgat atgtggctaa ctgtcaccga ctgtgttaca cagtcattgt gaaccaccgg 420  
 37 ctctgtatcc tgctgcttct gctgtcctgg gttatcagca ttttccatgc cttcatacag 480  
 39 agcttaattg tgctacagtt gaccttctgt ggagatgtga aaatccctca cttcttctgt 540  
 41 gaacttaatc agctgtccca actcacctgt tcagacaact ttccaagtca cctcataatg 600  
 43 aatcttgtac ctgttatgtt ggcagccatt tcttccagt gcatccttta ctcttatttc 660  
 45 aagatagtat cctccataca ttctatctcc acagttcagg ggaagtacaa ggcattttct 720  
 47 acttgtgcct ctacaccttc cattgtctcc ttattttata gtacaggcct cggagtgtac 780  
 49 gtcagttctg ctgtggtcca aagctcacat tctgtgcaa gtgcttcggc catgtatact 840  
 51 gtggtcacc ccatgctgaa ccccttcatt tatagtctaa ggaataaaga tgtgaagaga 900  
 53 gctctggaaa gactgttaga aggaaactgt aaagtgcac attggactgg atga 954  
 56 <210> SEQ ID NO: 2  
 57 <211> LENGTH: 1002  
 58 <212> TYPE: DNA  
 59 <213> ORGANISM: Rattus sp. F3  
 61 <400> SEQUENCE: 2  
 62 atggactcaa gcaacaggac aagagtttca gaattttctt ttcttggatt tgtagaaaac 60  
 64 aaagacctac aacccttat ttatggtctt tttctctcta tgtacctggg tactgtcatt 120  
 66 ggaacatat ccattattgt ggctatcatt tcagatccct gtctgcacac ccccatgtat 180  
 68 ttcttctct ctaacctgtc ctttgtggac atctgtttca tttcaaccac tgttccaaag 240  
 70 atgttagtga acatccagac ccaaaacaat gtcatacct atgcaggatg cattaccag 300  
 72 atatactttt tcttgcctct tgtagaattg gacaacttct tgctgactat catggcctat 360  
 74 gaccgttacg tagccatctg tcaccccatg cactacacag ttatcatgaa ctacaagtc 420  
 76 tgtggatttc tggttctggg atcttggatt gtaagtgttc tgcatgcott gttcaaagc 480  
 78 ttgatgatgt tggcgtgcc cttctgcaca catctggaaa tcccacacta cttctgtgaa 540  
 80 cctaatacag tgattcaact cactgttct gatgcatttc ttaatgatct tgtgatatat 600  
 82 ttacacattg tgctgctggc tactgttct cttgctggca tcttctatct ttacttcaag 660

## RAW SEQUENCE LISTING

DATE: 02/08/2001

PATENT APPLICATION: US/09/771,209

TIME: 12:32:52

Input Set : A:\38586b.txt

Output Set: N:\CRF3\02082001\I771209.raw

```

84 atagtgtcct ccatatgtgc tatatcgtca gttcatggga agtacaaagc attctccacc 720
86 tgtgcatctc acctttcagt cgtgtcttta ttttactgca caggactagg agtgtacctc 780
88 agttctgctg caaacaacag ctacacaggca agtgccacag cctcagtcac gtacactgta 840
90 gttaccacctg tggatgaaccc ttttatctat agtcttagga ataaagatgt taagagtgtt 900
92 ctgaaaaaaa ctctttgtga ggaagttata aggagtccac ctccctact tcattttctc 960
94 ctagtgttat gtcattctcc ttgttttatt tttgtttatt aa 1002
97 <210> SEQ ID NO: 3
98 <211> LENGTH: 942
99 <212> TYPE: DNA
100 <213> ORGANISM: Rattus sp. F5
102 <400> SEQUENCE: 3
103 atgagcagca ccaaccagtc cagtgtcacc gagttcctcc tccctgggact ctccaggcag 60
105 cccagcagc agcagctcct ctccctgctc ttccctcatca tgtacctggc cactgtcctg 120
107 ggaacacctgc tcatcactct ggctattggc acagaactccc gctgcacac ccccatgtac 180
109 ttcttctcga gtaacctgtc ctttgtggat gctgtctct cctctaccac tgtccctaaa 240
111 gttctggcca accatatact tgggagtcag gccatttct tctctgggtg tctcaccag 300
113 ctgtattttc tcgctgtgtt tggtaacatg gacaatttcc tgctggctgt gatgtcctat 360
115 gaccgatttg tggccatag ccaccttita cactacacaa caaagatgac ccgtcagctc 420
117 tgtgtcctgc ttgttgtggg gtcattgggt gtagccaaca tgaattgtct gttgcacata 480
119 ctgctcatgg ctgcactctc cttctgtgca gacaacatga tccccactt cttctgtgat 540
121 ggaactcccc tccatgaact ctccctgctc gacacacatc tcaatgagct gatgattctt 600
123 acagagggag ctgtggtcat ggtcaccca tttgtctgca tccctatctc ctacatccac 660
125 atcacctgtg ctgtcctcag agtctcatcc cccaggggag gatggaaac cttctccacc 720
127 tgtggtctcc acctggctgt ggtctgctc ttctatggca ccgtcatcgc tgtgtatttc 780
129 aaccatcat cctctcactt agctgggagg gacatggcag ctgcagtgat gtatgcagtg 840
131 gtgaccccaa tgctgaaccc tttcatctat agcctgagga acagcgacat gaaagcagct 900
133 ttaaggaaag tgctcgccat gagatttcca tctaagcagt aa 942
136 <210> SEQ ID NO: 4
137 <211> LENGTH: 936
138 <212> TYPE: DNA
139 <213> ORGANISM: Rattus sp. F6
141 <400> SEQUENCE: 4
142 atggcttggg gtaactggca gaacctgtcc acaccaggac cattcatctt gctgggcttc 60
144 ccagggccaa ggagcatgag cattgggctc ttctgtctt tccctggcat gtatctgctt 120
146 acggtagttg gaaacctagc catcatctcc ctggtaggtg cccacagatg cctacagaca 180
148 cccatgtact tcttctcttg caacctctcc ttctgggaga tctggttcac cacagcctgc 240
150 gtaccaaga cctggccac atttgcgcct cggggtggag tcatttctct ggctggctgt 300
152 gccacacaga tgtactttgt cttttctttg ggctgtacc agtacttctt gctggctgtg 360
154 atggcttatg accgctacct ggccatctgc ctgccactgc gctatggtgg catcatgact 420
156 cctgggctgg cgatgcggtt ggccctggga tccctggctg gtgggttttc tgcaatcaca 480
158 gttcctgcta cctcattgc ccgcctctct ttctgtggt cactgtcat caaccattc 540
160 ttctgtgaca ttctgcctg gatagtgtt tccctgaccg acacgcagg gtggaactg 600
162 gtgtcctttg gcattgcctt ctgtgttatt ctgggctcgt gtggtatcac actagtctcc 660
164 tatgcttaca tcatcactac catcatcaag attccctctg cccggggcgg gcaccgccc 720
166 ttctcaacct gctcatccca tctcactgtg gtgctgattt ggtatggctc caccatcttc 780
168 ttgcatgtga ggacctcgt agagagctcc ttggacctca ccaaagctat cacagtgtc 840
170 aacaccattg tcacacctgt gctgaacct ttcatatata ctctgaggaa caaggatgtc 900
172 aaggaagctc tgcgcaggac ggtgaagggg aagtga 936
175 <210> SEQ ID NO: 5

```

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/771,209 DATE: 02/08/2001  
 TIME: 12:32:52

Input Set : A:\38586b.txt  
 Output Set: N:\CRF3\02082001\I771209.raw

```

176 <211> LENGTH: 939
177 <212> TYPE: DNA
178 <213> ORGANISM: Rattus sp. I14
180 <400> SEQUENCE: 5
181 atgactggaa ataaccaaac tttgatcttg gagttcctcc tccctgggtct gcccatccca 60
183 tcagagtatc atctcctggt ctatgccctg ttcctggcca tgtacctcac catcatcctg 120
185 ggaaacctgc taatcattgt ccttggttca ctggactctc atctccacat gcccatgtac 180
187 ttgtttctca gcaacttgct cttctctgac ctctgctttt cctctgtcac aatgcccaaa 240
189 ttgtctcaga acatgcagag ccaagtacca tctatattct atacaggctg cctgacacag 300
191 ctgtactttt ttatggtttt tggagatatg gagagcttcc ttcttgggt catggcctat 360
193 gaccgctatg tggccatttg ctttcctttg cgttacacca ccatcatgag caccaagttc 420
195 tgtgtctcac tagtgctact tctgtggatg ctgacgatga cccatgccct gctgcatacc 480
197 ctactcattg ctgagattgc tttttgtgag aagaatgtga ttcttcaact tttctgtgac 540
199 atttctgctc ttctgaagtt gtccctgctc gacatttatg ttaatgagct gatgatatat 600
201 atcttgggtg gactcatcat tattatccca ttctatttaa ttgttatgtc ctatgttaga 660
203 attttcttct ccattttgaa gtttccatct attcaggaca tctacaaggt attctcaacc 720
205 tgtgggtccc atctgtctgt ggtgaccttg ttttatggga caatttttgg tatctactta 780
207 tgtccatcag gtaataattc tactgtgaag gagattgcca tggctatgat gtacacagtg 840
209 gtgactccca tgctgaatcc cttcatctac agcctgagga acagagacat gaaaagggcc 900
211 ctaataagag ttatctgcac taagaaaatc tctctgtaa 939
214 <210> SEQ ID NO: 6
215 <211> LENGTH: 945
216 <212> TYPE: DNA
217 <213> ORGANISM: Rattus sp. I15
219 <400> SEQUENCE: 6
220 atgacagaag agaaccaaac tgtgatctcc cagttccttc tcccttttct gcccatcccc 60
222 tcagagcacc agcagctggt ctacgcccctg ttcctgtcca tgtacctcac cactgtcctg 120
224 gggaacctca tcatcatcat cctcattcac ctggactccc atctccacac acccatgtac 180
226 ttgtttctca gcaacttgct cttctctgat ctctgctttt cctctgttac gatgccaaag 240
228 ttgttgacga acatgcagag ccaagttcca tccatcccct ttgcaggctg cctgacacaa 300
230 ttatactttt acctgtattt tgcagacctt gagagcttcc tgcttgggtg catggcctat 360
232 gaccgctatg tggccatctg cttccccctt cattacatga gcatcatgag cccaagctc 420
234 tgtgtgagtc tgggtgggtg gtccctgggtg ctgaccacct tccatgccat gctgcacacc 480
236 ctgctcatgg ccagattgtc attctgtgct gacaatatga tccccactt tttctgtgat 540
238 atatctcctt tattgaaact gtccctgctc gacacgcatg ttaatgagtt ggtgatattt 600
240 gtcatgggag ggcttggtat tgtcattcca tttgtgctca tcattgtatc ttatgcacga 660
242 gttgtgcctt ccattcttaa agtcccttct gtccgaggca tccacaagat cttctccacc 720
244 tgcggctccc atctgtctgt ggtgtcactg ttctatggga caatcattgg tctctactta 780
246 tgcgcgtcag ctaataaact tactgtgaag gagactgtca tggccatgat gtacacagtg 840
248 gtgaccccca tgctgaaccc cttcatctac agcctgagga acagagacat gaaagaggca 900
250 ctgataagag tccctttgtaa aaagaaaatt accttctgtc tatga 945
253 <210> SEQ ID NO: 7
254 <211> LENGTH: 933
255 <212> TYPE: DNA
256 <213> ORGANISM: Rattus sp. I3
258 <400> SEQUENCE: 7
259 atgaacaatc aaactttcat cacccaattc cttctcctgg gactgcccat ccctgaagaa 60
261 catcagcacc tgttctatgc cttgttctct gtcattgacc tcaccacat cttgggaaac 120
263 ttgctaatac ttgtacttgt tcaactggac tcccagctcc acacacctat gtatttgttt 180

```

## RAW SEQUENCE LISTING

DATE: 02/08/2001

PATENT APPLICATION: US/09/771,209

TIME: 12:32:52

Input Set : A:\38586b.txt

Output Set: N:\CRF3\02082001\I771209.raw

```

265 ctacagcaatt tgtctttctc tgatctatgt ttttcctctg tcacaatgcc caagctgctg 240
267 cagaacatga ggagccagga cacatccatt ccctatggag gctgcctggc acaaacatac 300
269 ttcttttatgg tttttggaga tatggagagt ttccctcttg tggccatggc ctatgaccgc 360
271 tatgtggcca tctgcttccc tctgcattac accagcatca tgagcccca gctctgtact 420
273 tgtctagtgc tgttattgtg gatgctgacg acatcccatg ccatgatgca cacactgctt 480
275 gcagcaagat tgtctttttg tgagaacaat gtggtcctca acttcttctg tgacctatct 540
277 gttctcctaa agctggcctg ctacagacact tatattaatg agttgatgat atttatcatg 600
279 agtacactcc tcattattat tccattcttc ctcatgttta tgtcctatgc aaggatcata 660
281 tcctctatcc ttaagggttc atctacccaa ggcactctga aggtcttctc tacctgtggt 720
283 tcccatctgt ctgtagtatc actgttctat gggacaatta ttggtctcta cttatgtcca 780
285 gcaggtaata attccactgt aaaagagatg gtcatggcca tgatgtacac tgtggtgacc 840
287 cccatgctga atcccttcat ctacagccta aggaatagag atatgaagag ggcctaata 900
289 agagttatct gtagtatgaa aatcactctg taa 933
292 <210> SEQ ID NO: 8
293 <211> LENGTH: 984
294 <212> TYPE: DNA
295 <213> ORGANISM: Rattus sp. I7
297 <400> SEQUENCE: 8
298 atggagcgaa ggaaccacag tgggagagtg agtgaatttg tgttgctggg tttcccagct 60
300 cctgccccac tgcgagtact actatttttc ctttctcttc tggactatgt gttggtgttg 120
302 actgaaaaca tgctcatcat tatagcaatt aggaaccacc caaccctcca caaaccatg 180
304 tattttttct tggctaatat gtcatttctg gagatttggg atgtcactgt tacgattcct 240
306 aagatgctcg ctggcttcat tggttccaag gagaaccatg gacagctgat ctcccttgag 300
308 gcatgcatga cacaactcta ctttttctcg ggcttgggtt gcacagagtg tgtccttctt 360
310 gctgtgatgg cctatgaccg ctatgtggct atctgtcacc cactccacta ccccgctatt 420
312 gtcagtagcc ggctatgtgt gcagatggca gctggatcct gggctggagg ttttgggtatc 480
314 tccatggtta aagttttcct tatttctcgc ctgtcttact gtggcccca caccatcaac 540
316 cactttttct gtgatgtgtc tccattgtct aacctgtcat gcactgacat gtccacagca 600
318 gagcttacag actttgtcct ggccattttt attctgctgg gaccgctctc tgtcactggg 660
320 gcatcctaca tggccatcac aggtgctgtg atgcatcacc cctcagctgc tggccgcat 720
322 aaagcctttt caacctgtgc ctcccacctc actgttgtga tcatcttcta tgcagccagt 780
324 attttcatct atgccaggcc taaggcactc tcagcttttg acaccaaaa gctggtctct 840
326 gtactctacy ctgtcattgt accgttgttc aatcccatca tctactgctt gcgcaaccaa 900
328 gatgtcaaaa gagcgctacg tcgcacgctg caccctggccc aggaccagga ggccaatacc 960
330 aacaaaggca gcaaaattgg ttag 984
333 <210> SEQ ID NO: 9
334 <211> LENGTH: 939
335 <212> TYPE: DNA
336 <213> ORGANISM: Rattus sp. I8
338 <400> SEQUENCE: 9
339 atgaacaaca aaactgtcat caccatttcc ctccctctgg gattgcccac cccccagag 60
341 caccagcaac tgttctttgc cctgttctcg atcatgtacc tcaccaactt tctgggaaac 120
343 ctgctaattg ttgtccttgt tcaactggac tctcatctcc acacacccat gtacttggtt 180
345 ctacagcaact tgtccttctc tgatctctgc ttttcctctg ttacaatgct gaaattgctg 240
347 caaaatatac agagccaagt accatctata tcctatgcag gatgctgac acagatatcc 300
349 ttctttttgt tgtttggcta ccttgggaat ttcttcttg tagccatggc ctatgaccgc 360
351 tatgtggcca tctgcttccc tctgcattat accaacaatc tgagccataa gctctgtact 420
353 tgtctcctgc tgggtatttg gataatgaca tcatctcatg ccatgatgca caccctgctt 480
355 gcagcaagat tgtctttttg tgagaacaat gtactcctca actttttctg tgacctgttt 540

```

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/771,209

DATE: 02/08/2001  
 TIME: 12:32:52

Input Set : A:\38586b.txt

Output Set: N:\CRF3\02082001\I771209.raw

```

357 gttctcctaa agttggcctg ctcagacact tatgttaatg agttgatgat acatatcatg 600
359 ggcgatgaca tcattgttat tccattcggt ctcattgtta tatcctatgc caagatcatc 660
361 tccctccattc ttaagggttc atctactcaa agcattcaca aggtcttctc cacttggtgt 720
363 tctcatctct ctgtggtgtc tctgtttctac gggacaatta ttggtctcta tttatgtcca 780
365 tcagggtgata attttagtct aaaggggtct gccatggcta tgatgtacac agtggtaact 840
367 ccaatgctga acccgttcat ctacagccta agaaacagag acatgaagca ggccctaata 900
369 agagttacct gtagcaagaa aatctctctg ccatggtag 939

```

372 <210> SEQ ID NO: 10

373 <211> LENGTH: 945

374 <212> TYPE: DNA

375 <213> ORGANISM: Rattus sp. I9

377 <400> SEQUENCE: 10

```

378 atgactagaa gaaaccaaac tgccatctct cagttcttcc ttctgggcct gccattcccc 60
380 ccagagtacc aacacctgtt ctatgccctg ttcttgcca tgtacctcac cactctcctg 120
382 gggaacctca tcattcatat cctcattcca ctggactccc atctccacac acccatgtac 180
384 ttgttttctca gcaatttatc ctttgccgac ctctgttttt cctctgtcac aatgcccaag 240
386 ttgttgacaga acatgcagag ccaagttcca tccatccctc atgcaggggt cctggcacag 300
388 atatacttct ttctgttttt tggagacctt ggaaacttcc tgcctgtggc catggcctat 360
390 gaccgctatg tggccatctg cttccccctt cattacatga gcacatgag ccccaagctc 420
392 tgtgtgagtc tgggtggtgt gtccctgggt ctgactacct tccatgccat gctgcacacc 480
394 ctgctcatgg ccagattgtc attctgtgag gacagtgtga tccctcacta tttctgtgat 540
396 atgtctactc tgcgtgaaagt ggcttgttct gacacccatg ataatgaatt agcaatattt 600
398 atcttagggg gccctatagt tgtactacct ttcttctca tcattgttcc ttatgcaaga 660
400 attgtttcct ccatcttcaa ggtcccttct tctcaaagca tccataaagc cttctccacc 720
402 tgtggtctcc acctgtctgt ggtgtcactg ttctatggga cagtcattgg tctctactta 780
404 tgtccttcag ctaataactc cactgtgaag gagactgtca tgcctttgat gtacacaatg 840
406 gtgacaccca tgetgaacct cttcatctac agcctaagaa acagagacat aaaagatgca 900
408 tttagaaaaa taatgtgcaa aaagcaaat cccctcttcc tatga 945

```

411 <210> SEQ ID NO: 11

412 <211> LENGTH: 645

413 <212> TYPE: DNA

414 <213> ORGANISM: Homo Sapiens H5

416 <220> FEATURE:

417 <221> NAME/KEY: misc\_feature

418 <222> LOCATION: ()..()

419 <223> OTHER INFORMATION: n = unknown

422 <400> SEQUENCE: 11

```

423 atctgttttg tgtctaccac tgtcccaaag cagctggtga acatccagac acagagcaga 60
425 gtcacacact atgcagactg catcaccag atgtgctttt ttatactctt tgtagtgttg 120
427 gacagcttac tccatgactg gatggcctat gaccggtttg tggccatctg tcacccctg 180
429 cactacacag tcattatgag ctccctggctc tgtggaactg tggttctggg gtccctggatc 240
431 gtgagcatcc tatattctct gttacaaaagc ataatggcat tgcagctgtc cttctgtaca 300
433 gaactgaaaa tccctcaatt tttctgtgaa cttaatcagg tcatccacct tgcctgttcc 360
435 gacactttta ttaatgacat gatgatgaat tttaacaagt tgcctgtggg tgggggatgc 420
W--> 437 ctgcctggaa tattttactn ntactttaag atactttgtt gcatatgttc gatctcatca 480
439 gtcagggga tgaataaagc actttccacc tgtgcactc acctctcagt tgtctcctta 540
441 ttttattgta caggcgtagg tgtgtacctt agttctgctg caaccataa ctactctca 600
443 aatgctgcag cctcggtgat gtacactgtg gtcacctoca tgctg 645
446 <210> SEQ ID NO: 12

```

FYI:

**Please Note:**

Use of n and/ r Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/771,209

DATE: 02/08/2001  
TIME: 12:32:53

Input Set : A:\38586b.txt  
Output Set: N:\CRF3\02082001\I771209.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:519 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:521 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:525 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:558 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:573 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:579 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:829 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:868 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:895 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:901 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:905 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:907 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:943 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24  
L:946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24  
L:949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24  
L:952 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24  
L:955 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24  
L:991 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25  
L:993 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25  
L:995 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25  
L:997 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25  
L:1033 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26  
L:1036 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26  
L:1039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26  
L:1042 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26  
L:1045 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26  
L:1081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:1116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28  
L:1215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31  
L:1252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32  
L:1348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35  
L:1350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35  
L:1384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36  
L:1387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36  
L:1498 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37  
L:1585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/771,209

DATE: 02/08/2001

TIME: 12:32:53

Input Set : A:\38586b.txt

Output Set: N:\CRF3\02082001\I771209.raw

L:1678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39  
L:1765 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40  
L:1846 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41  
L:1945 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42